



HIKVISION:
**Sure Bet
Solutions
for Gaming**

Hikvision Security Solutions Deliver Exceptional Video Quality and Support Casino Gaming Infrastructure, Operations and Return on Investment

HIKVISION[®]



Technology Designed to Meet the Demands of Casino Gaming

At Hikvision, we understand the complexities of the gaming industry: budget constraints, technology gaps and updates, and zero downtime requirements. These challenges, coupled with the need for constant general floor monitoring, can take a toll on any casino surveillance department. Hikvision technology can increase operator efficiency, protecting casino profits and assets.

HIGH RESOLUTION DETAILS PROTECT GAME INTEGRITY AND PATRON SAFETY

All gaming institutions are vulnerable to internal and external threats. Hikvision is leading the security industry with technology that's designed to address the unique threats found in the gaming industry. Our technology can help create environments that encourage fair, safe, and honest game play. Hikvision technology advantages include:

- Higher resolution to help surveillance operators identify card suits and chip denominations
- Clear video and images even in poor or low light conditions
- Analytics to enable identification of advantage players, banned players, unwanted guests and criminals
- Safety and security of casino patrons in the casino, at gaming tables, and throughout the hotel including check-in and parking garages

Solutions for Gaming Industry Challenges

Hikvision's casino-centric solutions allow surveillance personnel to efficiently manage the myriad challenges faced on a daily basis within a gaming environment. Hikvision's edge technology seamlessly integrates with the surveillance department's situational awareness platform to ensure Hikvision video and analytics capabilities are available and fully leveraged.

Large-Scale Video Monitoring: With hundreds and sometimes thousands of cameras to watch, Hikvision's high definition video makes it easier for security directors to identify:

- Underage Gamblers
- Self-Exclusions
- 86'd Patrons
- Black Book Members
- Dealer Monitoring
- Player Monitoring

Storing High Resolution High Frame Rate Video 24/7/365: To meet the large-scale storage requirements mandated in gaming, Hikvision offers H.265+, the latest compression technology. H.265+ uses 40 to 60 percent less network bandwidth than older compression standards to store high resolution video, resulting in the ultimate cost-effective solution.

Leverage Legacy Infrastructure, Eliminate Downtime: Hikvision's TurboHD (High Definition video over Coax) products can be used to upgrade a casino to HD video without closing sections of the casino to rewire cable, allowing facility owners to maximize profits during install and increasing ROI. TurboHD cameras can be installed at the same locations as current analog cameras and can operate at distances of up to 1,200 feet at 30 fps.

License Plate Recognition: Hikvision advanced License Plate Recognition technology is capable of plate number capture, controlling what vehicles gain access, providing gaming institutions the ability to identify VIP gamblers and High-End players who are granted access to exclusive entrance/exit points in a casino.

Self-Exclusions: Hikvision has one of the most accurate facial recognition cameras in the industry. When mounted in strategic locations, this technology can quickly and accurately identify patrons who have self-excluded, greatly reducing casino exposure.

Storage Requirement Savings, Functionality to Meet Regulations: Our high capacity storage devices (enterprise storage) provide a reasonably priced alternative to massive storage requirements, allowing security directors to purchase storage at a fraction of the typical cost, while receiving all the functionality required to meet state and local gaming regulations.

HIKCENTRAL CENTRALIZED SECURITY ECOSYSTEM



Broad Area Surveillance Applications

Hikvision technology offers surveillance operators a holistic view of the casino environment 24/7.



MAP LEGEND

01 Table Games and Pits:

With our high resolution, high frame rate video technology, security operators can easily determine card suits and pips on individual cards, greatly reducing the need for table stoppages to resolve disputes.

02 Slot Areas:

With Hikvision's LightFighter technology, blinking lights on slot machines and LED displays no longer interfere with the overall video quality, enabling surveillance operators to catch coin/ticket thieves and purse snatchers more reliably.

03 Cages and Count Rooms:

High resolution, high frame rate video allows operators to go frame-by-frame while still observing cage window personnel paying out money, including the detail of each individual dollar being paid out.

04 Hotel Area:

Our PanoVu panoramic 360 and 180-degree cameras allow for complete coverage of elevator lobbies, hallways, stairwells, check-in counters and high-traffic areas with minimal IP streams.

05 Casino Entrances:

Our LightFighter technology provides video clarity and back light compensation even when an outside door is opened. This allows operators to shorten identification time of casino patrons.

06 Parking Lot and Garages:

Our high resolution cameras, DarkFighter, and LPR (license plate recognition) technology can act as a deterrent for vehicle theft, long-term parking, and break-ins.

07 Night Clubs and Bars:

Our DarkFighter technology improves identification of nefarious characters in darkened areas of nightclubs and bars. POS Integration can support asset protection by monitoring staff behavior.

08 Back-of-House:

Optical biometrics improve the flow of employee traffic as well as time-and-attendance of casino employees. Hikvision's 360-degree and PanoVu cameras provide high resolution coverage of hallways throughout the back-of-house with minimal IP video streams.

09 Gaming Floor:

Our PanoVu and multi-manager camera technology allows a casino to secure more square footage with fewer cameras while increasing coverage. This reduces cost, increases awareness, and reduces the number of camera licenses.



HIGH RESOLUTION 4K CAMERAS AT 30 FPS: Leverage the latest 4K high resolution video innovations with the full line of Hikvision 4K cameras.

DF-5 RETROFIT HOUSING: Unique housing developed for gaming institutions to replace the large install base of the DF-5 housing and enables a fixed 6-22 mm HD camera or a 1080p TurboHD box camera to replace legacy technology. Housing can also be used to replace legacy cameras with small HD PTZ units.

ENTERPRISE STORAGE: Large-scale affordable enterprise storage solutions to meet your budget and specifically designed for storing and retrieving large amount of video.

FACIAL RECOGNITION CAMERAS: Innovative facial recognition technology that accurately identifies valued guests, self-exclusions, known criminals, and trespassers.

PANOVU TECHNOLOGY: Hikvision's PanoVu Multi-Sensor cameras are perfectly suited for vast coverage applications because they process and stitch multiple images together for high resolution panoramic views with megapixel detail, enabling casinos to cover a wider area with fewer cameras.

FEATURED PRODUCTS

High Resolution 4K cameras



DF-5 Retrofit Systems



Enterprise Storage



Face/Human/Vehicle Detection and Facial Recognition Cameras



PanoVu





Save Time and Money with Hikvision's TurboHD™:

High definition video surveillance systems built on analog HD technology leverages casinos' vast analog infrastructure, reducing downtime and saving money.

Hikvision's TurboHD technology (HD over coax) enables casinos to upgrade to high-performing, affordable surveillance with exceptional images and storage capabilities. TurboHD offers these benefits:

- No downtime or closing off sections of the casino to rewire cable.
- Easy to install with features that fulfill various regulatory requirements.
- Leverage existing cable runs up to 1,200 ft. reducing installation time, network costs, labor costs, and enabling the casino to remain fully operational during installation.
- Higher resolutions deliver crisp, clear images for more precise detection of bet capping and other card game manipulations. Cheating detection accuracy improves, protecting casino profits and reducing unnecessary stoppage in play.

TYPICAL CASINO CAMERA INSTALL COSTS

DESCRIPTION	IP COST	ANALOG HD COST	COST DELTA	
Wire/Cabling	\$50,000.00	\$125,000.00	\$(75,000.00)	
Labor for cable	\$150,000.00	\$200,000.00	\$(50,000.00)	
VMS	\$120,000.00	\$12,500.00	\$107,500.00	
WMS Servers/Analog Encoders	\$110,000.00	\$80,000.00	\$30,000.00	
Network	\$140,000.00	\$50,000.00	\$90,000.00	
IDF Cost	\$120,000.00	\$30,000.00	\$90,000.00	
Storage	\$380,000.00	\$280,000.00	\$100,000.00	
Cameras	\$620,000.00	\$450,000.00	\$170,000.00	
Camera Labor	\$300,000.00	\$300,000.00	\$ ---	
All other misc. equipment	\$300,000.00	\$300,000.00	\$ ---	
System Total	\$2,290,000.00	\$1,827,500.00	\$462,500.00	20% Savings



Exceptional Technology, Outstanding Value to Meet Budgets

VALUE-BASED MARKET PRICING:

Our price advantages provide casinos the ability to deploy superior technology while meeting budget requirements. Providing this level of savings coupled with Hikvision's less than one percent technology failure rate ensures casinos are gaining quality while being good stewards of casino profitability.

TurboHD™ TVI SOLUTIONS:

Hikvision's TurboHD TVI solutions takes advantage of casinos' existing coaxial cable infrastructure and allows high definition video to be transmitted via the legacy medium. This reduces the cost associated with upgrading to high definition video by 20+ percent.

ENTERPRISE STORAGE:

Hikvision provides high-capacity storage in a very small footprint making this solution a perfect fit for any casino environment. With regulations requiring high resolution 30 fps video, our storage solutions make recording simple, flexible and budget-friendly.

H.265/H.265+ COMPRESSION:

A revolutionary video compression algorithm that reduces video bitrate streaming between 60 to 80 percent over the current H.265 industry standard. H.265+ greatly reduces network bandwidth consumption and lowers storage requirements by 40 to 60 percent compared to traditional H.265 – a significant cost savings.

HIGH RESOLUTION, HIGH FRAME RATE CAMERAS:

Hikvision leads the industry with our high resolution, high frame rate cameras. Our value priced 4K product line supports 30 fps (frames per second) making it the perfect solutions for the casino environment.

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